City Data Infrastructure Strategy to Foster an Innovation-Based Economic Development

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Nice Côte d’Azur Metropolis
Nice Côte d’Azur: an heterogeneous territory

- 1,400 Km²
- 540,000 inhabitants
  - 102 nationalities
  - 228,000 jobs
  - 41,000 students
- 49 cities and villages
  - from 80 to 350,000 inhabitants
  - 7 ports
  - 6 ski resorts
- Eco-Vallée national interest project
  - Urban development model
  - 10,000 inhabitants
  - Living lab of the smart city
Innovation as the answer to territorial development

- **Increase the efficiency of city operation**
  Do better with less
  - Shared resources between city works
  - City infrastructure expense reduction

- **Improve the quality of services for citizens**
  - Personalized services
  - Guarantee of territorial equity
  - Citizen contribution

- **Digital innovation to dynamize economic development**
  - Develop the entrepreneurial local fabric (SMEs, startups)
  - Stimulate industry-research partnerships
  - Make the Metropolis the benchmark city for new sectors of excellence
Our strategic application domains

- Transport and Mobility
- Risks Prevention and Management
- Energy Management
- E-Health economy
- Tourist and Economic Attractiveness
- Environmental Urban Monitoring
Big Data infrastructure
Build the smart city digital infrastructure platform (IOT and fiber networks, data center, marketplace platform)

Data marketplace
Share city data (with companies, academic research, local authorities, citizens,)

Smart City Innovation Center (SCIC)
Create a co working platform (public – private - academic)

Innovation Ecosystem
Impulse local ecosystems through partnership pilot projects

Living Lab (Open Lab)
Use the territory for large scale replicable experimentations

New Economic Fields
Develop education and training in smart city specialties
Building the smart city ecosystem

Long term established companies

Startups and SMEs

Academic research

Citizen engagement
Master the Smart City digital infrastructure

Urban Hypervision | Data Marketplace

City Services Platform

City Data Warehouse

Ultra High Band Backhaul
City Fiber Network

Internet of Things
City Sensors Networks

Source ARM Ltd.
The land for experimenting smart grids

**Deployment of smart electric grids**
Provence Alpes Côte d’Azur, national reference territory

**Smart solar district**
Technological and economic demonstrator of an energy pilot project

**ReFlexE**
Electrical flexibility of the territory
Secure electric power source thanks to consumption cut-off and renewable energies

**Social networking for Energy**
Energy optimization on a daily use
130 family volunteering
Electric flexibility for a cluster of public buildings

1500 public building
200 equipped in CBM fin 2017
Electricity bill of Nice town 6M€ /2015

Automated management solution (futur)
• Real time data from BCM
• Environmental data (forecasts)
• Buildings activity profiles
• Dynamic energy price modulation
• Flexibility strategies (eg. load reduction)

Set up of an Innovation Partnership
• Phase I : specification and experimentation
• Phase II : acquisition of a commercial solution
Remote expert for public private services

« Spot Mairie » 2013
The virtual town hall
Extension of the city call center to telepresence

Remote expert for public services
Give access to services of general interest in rural areas

Multi-partner large-scale experimentation
• Easy switching between multiple back offices
• Context management (access control, link security, ...)

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Build a sustainable value model for public data

Data monetization
- Open Data (free)
- Licensing
- Reciprocity

Public Private Partnership
- Public contract code
- Business models
- Intellectual property (IP)

Personal data protection
- Individual rights
- Public data access policies

Funding R&D projects

Citizens Involvement
Producers and contributors
Q&A